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TI Ceramic binding compositions and method for binding ceramics
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SO Jpn. Kokai Tokkyo Koho, 12 pp.
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LA Japanese
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	JP 2734147	B2	19980330		
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 03192176	ICM	C09J001-02
		ICS C03C014-00; C09J005-00; C09J005-06

AB The compns. comprise binding component 10-50, and ceramic aggregate (e.g., **cordierite**) 50-90 weight parts. The binding component contains alkali metal silicate (mainly **water glass**) 80-85, and amorphous silica powder (particle diameter $\leq 0.1 \mu\text{m}$) 5-20 weight%. Addnl., appropriate amount of **water** is added to the composition to form a paste having viscosity 103-106 P at shear strength 10 s-1 for joining. The binding ia carries out by filling the composition in the seam (0.5-5 mm) of 2 adjacent ceramic members (e.g., porous **cordierite** filter plates), and heating at 400-1200° for hardening. Optionally, the composition can be pre-extruded to form sheet shapes, then arranged in the seam for joining.

ST binding compn ceramic **water glass**; **cordierite** filter plate binding compn

IT Ceramic materials and wares
(binding of, to ceramics, **water glass**-amorphous silica-based binders containing ceramic aggregates for)

IT Filters and Filtration apparatus
(**cordierite**, binders for, compns. of **water glass**-amorphous silica-based)